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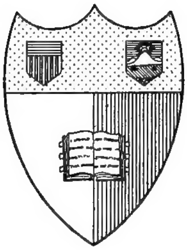

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A BIBLIOGRAPHY OF FISHES

BY

BASHFORD DEAN

ENLARGED AND EDITED BY

CHARLES ROCHESTER EASTMAN

VOLUME I

AUTHORS' TITLES A–K

THE
AMERICAN
MUSEUM
OF
NATURAL
HISTORY
SCIENCE
EDUCATION

PUBLISHED BY THE MUSEUM
1916

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PUBLICATIONS GROUPED UNDER THE NAMES OF AUTHORS

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E.Y.

"A king of France, when travelling in Catalonia, discovered an ancient man engaged unremittingly in the planting of date kernels. 'Why,' he asked, 'do you sow the seeds of a tree of such tardy growth, seeing that the dates will not ripen till a hundred years be passed?' 'Am *I* not then,' replied the other, 'eating the fruit of trees planted by my forefathers who took thought for those who were to come? Why, therefore, should I not do like unto them?'" — *Travels of the Bohemian Leo, Lord of Rozmital and Blatna, in Western Europe (1465–1467).*

PREFACE

It is clear that Fishes have been of great interest to mankind during a long period, for in all lands they have been the theme of numberless publications. Indeed, at the present time the student who seeks to understand any phase of the knowledge of Fishes may well be confused by the series of references which he must consult. Where he expected a few pages of data he sometimes finds volumes!

This treasury of knowledge is, unfortunately, not easily accessible — its materials are widely scattered, ill digested, sometimes hiding in unexpected places. Then, too, the literature has grown during the last decades by leaps and bounds. The modern investigator is even embarrassed by the task of deciding where to begin his studies. But from any point of view he cannot afford to ignore the results of his predecessors and to repeat work which already has been well done. So in the end, like Cleanthes, he must be willing to work his way to bibliographical knowledge, "hewing wood and drawing water." If he has no special training in hunting references his struggle is apt to be painful and his results imperfect. With the best will in the world he may well remain ignorant of earlier work and in the end make lamentable and inexcusable mistakes. Many instances of these in publications of the past generation make it clear that the time is fully ripe for a general review of ichthyological literature.

The present work is designed to bring together in convenient form all published references to the Science of Fishes and to enable an investigator to find, at a minimal cost of time, what is known of a given theme. These references deal with Fishes broadly (including Cyclostomes and Amphioxus) their habits, structure, development, physiology, pathology, their distribution and kinds — taking into account fossil species as well as recent. All titles are for present purposes grouped under the headings of *Authors* in Volumes I and II, and *Subjects* in Volume III, the last volume serving conveniently as the index to the others, for by reason of economy it has seemed expedient not to repeat the separate titles in the index volume, but merely to refer back to them under the captions of their respective authors. Thus, "Jordan, 1891.4" means consult the fourth paper published by David Starr Jordan in 1891. The index, it should further be noted, does not include detailed references to *species, genera* or even, in many cases, to *families* of Fishes. This would entail many years' additional listing, but should unquestionably next be done. Nor does the present bibliography treat exhaustively the vast fields in which Fishes come in touch with markets, table or angling, for these are special domains, less in scientific interest, yet each with its large circle of readers and worthy of a separate bibliography. We note that even without including these themes the lists here considered number over forty thousand titles.

The present work, it may be explained, is an outcome of my study of the literature of Fishes in connection with my investigations in various branches; it began in 1890 in the form of an index to references, and by 1900 included about twenty thousand cards. There was then no distinct plan to publish it. But about this time my students and correspondents came to realize that it contained a mass of material which served them conveniently in their work. And in return for the use of the index they sometimes contributed generous lists of references. And in various other ways the bibliography grew. Thus Geheimrath von Kupffer in Munich allowed me the use of his extensive references to the embryology of Fishes. My preceptor Dr. A. Böhm added many titles, especially in the literature of Cyclostomes, as did also Dr. L. Neumayer of the Anatomical Institute of Munich. In 1910 the Smithsonian Institution gave willing access to the index which had been laboriously prepared by and under the direction of Professor G. Brown Goode, whose lamented death cut short his project of preparing an ichthyological bibliography on somewhat the present lines. I am indebted, also, to Dr. F. J. Cole of Birmingham for valued assistance, for he, again, had planned a work which should serve the needs of students. . . . Thus it came about that my bibliography outgrew its original purpose. It had become a storehouse of references which should be made accessible to workers generally.

But evidently it could not be published in the state in which it then stood. It needed additions and revision in large measure before it could safely be sent to press. First of all it would have to be compared title for title with earlier bibliographies, notably with Bosgoed's list of ichthyological writings (1874). Its findings were also to be checked against such standards as the Zoological Record, Carus and Engelmann, Louis Agassiz's bibliography (1848–1854) and the cards of the Concilium Bibliographicum. Then, too, many of its titles needed, for reason of clearness, to be compared with the original publications. By this means errors were to be avoided and new references discovered. Finally, and for the more recent literature, the effort was to be made to induce the many writers in this field to contribute their lists of publications, or to revise their bibliographies when furnished them.

It was in 1910 that my index reached a critical stage in its development. It had become an unwieldy enterprise — too large to be carried on single-handed, yet too valuable to be abandoned. Then it was, at the instance of President Henry Fairfield Osborn, that the American

Museum of Natural History happily came to my aid: it allowed me the help of a secretary for transcribing references, and since then it has with great generosity provided the means for editing and enlarging the work. And it now assumes the burden of publishing it. In this it was aided by the Jesup Fund and by certain private subscriptions, notably by Mrs. Isaac M. Dyckman and Mrs. Bashford Dean.

The labor of completing the Bibliography proved difficult and exacting. About 1910 my former colleague in the Museum, Dr. Louis Hussakof, was induced to become my collaborator. During 1913–1914 he controlled the results of the compiler Miss Evelyn Tripp, whose faithful work deserves great credit. But Dr. Hussakof found that the enterprise, added to his other museum duties, was an overtax upon him, so in 1914 he felt obliged, to our mutual regret, to retire as a joint author. He merits, none the less, the sincere thanks of all who use the Bibliography, for the part which he contributed.

In the same year, 1914, Dr. Charles R. Eastman was persuaded to assume the editorship. He was aided during 1915–1916 by Miss Marguerite Engler, who gave her time devotedly to the Authors' volumes, and from the summer of 1916 onward by Miss Florence Schwarzwaelder and Mr. Arthur Henn, who made a great number of entries for the indexing. And at this moment, when the work is in press, I need hardly assure the Editor and his assistants of my great gratitude for their help — for no one realizes better than myself that to finish the task fully and accurately demanded sustained and meticulous labor. Dr. Eastman, I should note, was keenly interested in the work from its inception, for from his own studies as a palæichthyologist he appreciated its general importance to investigators and he had already gone widely into the bibliographical field, especially that province of it which has to do with the earlier writers. In this connection he is to be credited with bringing together the principal part of the pre-Linnæan literature of Fishes, which appears at the end of the second volume. In fact, while I am writing my acknowledgments, I should make it clear that had not Dr. Eastman come to my literary rescue at the time he did, the bibliography might never have been published, for I myself had become entangled with other matters and could afford neither the time nor the energy to complete it. Dr. Eastman's name would indeed have appeared as co-author of the present work had he himself not modestly declined this "responsibility."

Hence there must be laid to my own score any omissions or defects which may be discovered in the following pages, especially since I have followed the steps in the work with great interest, corrected the galley proof and revised the material for the index. But when slips *are* pointed out I will not hesitate to console myself with the reflection that no bibliography is perfect even for the most special subject. Stevenson knew his theme when he wrote "if you are troubled with a pride of accuracy and would have it completely taken out of you, *print a catalogue!"* . . . Nevertheless I can assure the careful reader that all of us who have labored in the present work have, like Epictetus, *"tried incessantly to be accurate — and by this means escaped at least a few errors!"*

BASHFORD DEAN.

American Museum of Natural History,
October 27, 1916.

Pour bien sçavoir les choses il faut en sçavoir le détail.— *La Rochefoucauld.*

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EXPLANATORY NOTE

I. For economy in publication, titles have been simplified; certain words and punctuation marks have been omitted where they appeared unnecessary for a clear understanding of the references.

II. Rules of the American Library Association have been followed as to (1) alphabetizing, and (2) transliteration of Slavonic names, with vowels as in Italian and consonants as in English. In addition, initial capitals in foreign languages are unaccented, as for instance Abo for Åbo, Etat for État, etc., and Danish and Norwegian nouns are not capitalized.

III. Additions to titles or inserted explanatory phrases are included in inferior brackets ⌊ ⌋, parentheses being retained where they occur in titles.

IV. The number of the volume is printed in bold-faced type, immediately succeeding the numerals denoting year of publication.

V. Authors' titles are arranged chronologically as to years and alphabetically as to publications within the same year.

VI. Where titles have been taken from standard works of reference (*e.g.*, British Museum Library Catalogue and the bibliographies of Agassiz, Bosgoed, Carus, and Engelmann, etc.) the numbers for pages and volume have not as a rule been verified.

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Pages 209–213 of this paper are occupied with an appendix in which descriptions are given of several new cyprinoid species from the eastern United States.

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Dr. T. N. Gill's comments on this work are as follows:

"This edition is noticed under the date of 1788 and the name of Gmelin, as that naturalist is alone responsible for the incorporation of the many species described since the last edition of the Systema Naturæ revised by Linné. The compilation displays very little acquaintance with any branch of zoology, and species are incorporated into the system in defiance of the characters of the groups to which they are referred. This is evidently the result of blind confidence in the accuracy and powers of discrimination of those whose species were incorporated by him into the System, as he did not hesitate to adopt their views as to generic relations, however much the inherent evidences of their own descriptions might oppose their views." — Smithson. Miscell. Collect., 1872, **11**, 37.

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Kner, *Rudolf,* & **Heckel,** *Johann Jakob. See* **Heckel** & **Kner.**

Kner, *Rudolf,* & **Steindachner,** *Franz.* Neue Beiträge zur Kenntniss der fossilen Fische Oesterreichs. Denkschr. Akad. Wiss. Wien, 1863, **21**, 17–36. 7 pls. 1863.1

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